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ABSTRACT OF THE DISCLOSURE

5 This invention relates to a reproducible system for the production of stable,
genetically transformed maize cells, and to methods of selecting cells that have been
transformed. One method of selection disclosed employs the *Streptomyces bar* gene
introduced by microprojectile bombardment into embryogenic maize cells which were
grown in suspension cultures, followed by exposure to the herbicide bialaphos. The
10 methods of achieving stable transformation disclosed herein include tissue culture
methods and media, methods for the bombardment of recipient cells with the desired
transforming DNA, and methods of growing fertile plants from the transformed cells. This
invention also relates to the transformed cells and seeds and to the fertile plants grown
from the transformed cells and to their pollen.

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